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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/684,185	10/12/2003	Felix Rodriguez	JDN 0301	2582
7590 11/24/2004 Aqua Maker LLC 10627 Kinghurst Drive			EXAMINER	
			CINTINS,	IVARS C
Houston, TX			ART UNIT	PAPER NUMBER
			1724	
			DATE MAILED: 11/24/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	-)			
Office Action Summan	10/684,185	RODRIGUEZ, FEL	IX			
Office Action Summary	Examiner	Art Unit				
The MAU INC DATE of this area	Ivars C. Cintins	1724				
The MAILING DATE of this communicati Period for Reply	on appears on the cover sheet wi	th the correspondence add	lress			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica - If the period for reply specified above is less than thirty (30) day - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, b Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	CFR 1.136(a). In no event, however, may a retion. s, a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MONT	eply be timely filed (30) days will be considered timely. THS from the mailing date of this con	nmunication.			
Status						
1) Responsive to communication(s) filed on						
	This action is non-final.					
3) Since this application is in condition for a	llowance except for formal matte	ers prosecution as to the	morito io			
closed in accordance with the practice ur	nder <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.	nents is			
Disposition of Claims						
4) Claim(s) 1-29 is/are pending in the application	ration					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	citionawn from consideration.					
6)⊠ Claim(s) <u>1-29</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction a	and/or election requirement					
Application Papers						
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9) The specification is objected to by the Exa	iminer.					
10) The drawing(s) filed on is/are: a)	Jaccepted or b)∐ objected to by	the Examiner.				
Applicant may not request that any objection to	o the drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the co	orrection is required if the drawing(s)	is objected to. See 37 CFR	1.121(d).			
11)☐ The oath or declaration is objected to by the	ie Examiner. Note the attached (Office Action or form PTO	-152.			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified cobies of the priority docur 		19(a)-(d) or (f).				
2. Certified copies of the priority docum	nents have been received in App	dication No				
3. Copies of the certified copies of the	priority documents have been re	occived in this Notional Cta				
application from the International Bu	reau (PCT Rule 17.2(a))	ceived in this National Sta	age			
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
) Notice of References Cited (PTO-892)	Λ □					
Notice of Draftsperson's Patent Drawing Review (PTO 048	Danar Na(a)/M	mary (PTO-413) lail Date				
Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date	5) Notice of Infor 6) Other:	mal Patent Application (PTO-15	2)			

Art Unit: 1724

This application contains two claims identified by the number 10, and two claims identified by the number 11. Accordingly, the second appearing claims 10 and 11 have been renumbered as claims 12 and 13, respectively, in accordance with 37 C.F.R. § 1.126. Also, claims 12-27 have been renumbered as claims 14-29, respectively; and the dependencies of second appearing claim 11 through claim 27 have been changed to reflect the new claim numbering.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 12 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by Atsumi et al. (U.S. Patent No. 5,151,122) or Matsumoto et al. (U.S. Patent No. 5,531,908). Each of the references discloses a composition comprising zeolite and a compound of zinc (see col. 5, lines 63-64 of Atsumi et al.; and col. 3, lines 27-28 of Matsumoto et al.); and this is all that is required by claim 12.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 13-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Atsumi et al. or Matsumoto et al. Each of the references discloses the claimed invention with the exception of the type of zeolite employed (claims 13-16 and 18-24), the type of zinc compound employed

Art Unit: 1724

(claims 14-16, 20 and 21), the manner in which the zeolite is contacted with the zinc compound (claims 17-24), the size of the zeolite particles (claims 22-24), and pH of the zeolite (claim 24). However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to employ clinoptilolite as the zeolite in either reference system, since this clinoptilolite is a well known natural zeolite material. Similarly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to employ the recited zinc salts in forming the treatment material of either reference system, since these zinc salts are capable of introducing zinc ions into the zeolite of these reference systems. Furthermore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to form the material of either reference by boiling the zeolite in a solution of the zinc compound, in order to promote the exchange of zinc ions for other cations in this zeolite; and to then wash the resultant material with distilled water, in order to remove any residual reactant therefrom. Moreover, it would have been obvious to one of ordinary skill in the art at the time the invention was made to employ a zeolite having the recited particle size in the system of either primary reference, in order to facilitate handling of this zeolite material. Also, it would have been obvious to one of ordinary skill in the art at the time the invention was made to employ a zeolite having the recited pH in the system of either reference, in order to maintain a neutral pH for the water undergoing treatment.

Claims 25-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Atsumi et al. or Matsumoto et al. as applied above, and further in view of Leonard (U.S. Patent No. 4,247,524). Each of the primary references, as modified above, discloses the claimed invention with the exception of the recited hydrothermal treatment. Leonard teaches hydrothermal

Art Unit: 1724

treatment of clinoptilolite; and it would have been obvious to one of ordinary skill in the art at the time the invention was made to activated the zeolite of either modified primary reference in the manner taught by Leonard, in order to increase its capacity for zinc ions.

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art in view of Matsumoto et al. Applicant has admitted that it is known to produce drinking water by condensation (page 1, lines 18-19 of the specification). Matsumoto et al. teaches contacting drinking water (col. 4, line s 26-27 and 45) with a zinc-impregnated zeolite (col. 3, lines 27-28) in order to reduce its microbial contamination. It would have been obvious to one of ordinary skill in the art at the time the invention was made to purify the admittedly known drinking water by the technique of Matsumoto et al., in order to reduce the microbial contamination of this admittedly known water. Again, it would have been obvious to one of ordinary skill in the art at the time the invention was made to employ clinoptilolite as the zeolite in either reference system, since this clinoptilolite is a well known natural zeolite material. Also, it would have been obvious to one of ordinary skill in the art at the time the invention was made to employ a zeolite having the recited particle size in the system of either primary reference, in order to facilitate handling of this zeolite material. Furthermore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to wash the zeolite of the modified primary reference with distilled water, in order to remove any contaminants therefrom. Moreover, it would have been obvious to one of ordinary skill in the art at the time the invention was made to employ a zeolite having the recited pH, in order to maintain a neutral pH for the water undergoing treatment.

Art Unit: 1724

Claims 6-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art in view of Matsumoto et al. as applied above, and further in view of Leonard. The modified primary reference discloses the claimed invention with the exception of the recited hydrothermal treatment. Leonard teaches hydrothermal treatment of clinoptilolite; and it would have been obvious to one of ordinary skill in the art at the time the invention was made to activated the zeolite of the modified primary reference in the manner taught by Leonard, in order to increase its capacity for zinc ions. Again, it would have been obvious to one of ordinary skill in the art at the time the invention was made to form the material of the modified primary reference by boiling the zeolite in a solution of the zinc compound, in order to promote the exchange of zinc ions for other cations in this zeolite. Furthermore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to employ the recited zinc salts in forming the treatment material of the modified primary reference, since these zinc salts are capable of introducing zinc ions into the zeolite of the primary reference in substantially the same manner as the zinc salt employed by Matsumoto et al., to produce substantially the same results.

Hayakawa et al. (U.S. Patent No. 5,961,843) discloses an antimicrobial material comprising zeolite and zinc chloride or zinc sulfate (see col. 10, lines 1-12).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to I. Cintins whose telephone number is (571) 272-1155. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Duane Smith, can be reached at (571) 272-1166.

The centralized facsimile number for the USPTO is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ivars C. Cintins
Primary Examiner

Art Unit 1724

I. Cintins November 20, 2004